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EXAMINER

WANG, JACK K

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/594,308	<b>Applicant(s)</b> ARAI ET AL.	
	<b>Examiner</b> JACK WANG	<b>Art Unit</b> 2612	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 May 2010.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)         | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/4/2010 has been entered.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-5, 7, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Nicholson et al. (US Patent # 6,563,425 B2).

Consider claim 1, Nicholson et al. clearly show and discloses a product management system comprising: a first resonance circuit (14, Fig. 8A); a second resonance circuit (passive repeater apparatus) (40, Fig. 8A); and a reader/writer (2, Fig. 1) (Column 3 lines 40-46) for at least one of reading information stored in a semiconductor device (tag) (14, Fig. 8A) and writing information in the semiconductor device (14, Fig. 8A) (Column 3 lines 28-34), wherein the first resonance circuit (14, Fig. 8A) comprises an antenna coil and a capacitor (Column 2 lines 39-42 shown in incorporated reference US Patent #6,100,804), wherein the second resonance circuit (40, Fig. 8A) comprises a second antenna coil (16, Fig. 8A) and a second capacitor (32, Fig. 5)

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(Column 4 lines 21-25), wherein a first packing material (49, Fig. 8B) for packing a product is provided with the first resonance circuit (14, Fig. 8B), wherein a second packing material (48b, Fig. 8B) for packing the first packing material (49, Fig. 8B) is provided with the second resonance circuit (40, Fig. 8A), wherein the product (49, Fig. 8B) is provided with the semiconductor device (RFID tag) (14, Fig. 8B), wherein the second resonance circuit (40, Fig. 8A) can communicate with the reader/writer (2, Fig. 1) and the first resonance circuit (14, Fig. 8A) (Column 3 lines 40-46), and wherein the first resonance circuit (14, Fig. 8A) can communicate with the reader/writer (2, Fig. 1) and the semiconductor device (RFID tag) (14, Fig. 8A) (Column 3 lines 40-46).

Consider claim 2, Nicholson et al. clearly show and discloses the product management system, wherein a communication method between the reader/writer (2, Fig. 1) and the first resonance circuit (14A, Fig. 8A) and the second resonance circuit (40A, Fig. 8A), and a communication method between the second resonance circuit and the semiconductor device are identical to each other (inherent within repeater) (Column 1 lines 52-64).

Consider claim 3, Nicholson et al. clearly show and discloses the product management system, wherein the communication method is an electromagnetic induction (magnetic flux) method (Column 1 lines 52-64).

Consider claim 4, Nicholson et al. clearly show and discloses the product management system, wherein a communication method between the reader/writer and the resonance circuit (15, Fig. 8B) is different from a communication method (activate and passive) between the resonance circuit (15, Fig. 8B) and the semiconductor device (14, Fig. 8B) [Column 1 lines 35-36).

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Consider claims 5 and 7, Nicholson et al. clearly show and disclose the product management system, wherein the communication method between the reader/writer (2) and the second resonance circuit (40, Fig. 7) is any one of an electromagnetic (magnetically) induction method and a microwave method (Column 4 lines 63-65).

Consider claim 8, Nicholson et al. clearly show and discloses the product management system, wherein the semiconductor device is selected from the group of an ID tag, an ID chip, an ID label, an ID seal and an ID sticker (Column 3 lines 35-40).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nicholson et al. (US Patent # 6,563,425 B2).

Consider claim 6, Nicholson et al. clearly show and discloses a product management system comprising: a first resonance circuit (14, Fig. 8A); a second resonance circuit (passive repeater apparatus) (40, Fig. 8A); and a reader/writer (2, Fig. 1) (Column 3 lines 40-46) for at least one of reading information stored in a semiconductor device(tag) (14, Fig. 8A) and writing information in the semiconductor device (14, Fig. 8A) (Column 3 lines 28-34), wherein the first resonance circuit (14, Fig. 8A) comprises an antenna coil and a capacitor (Column 2 lines 39-42 shown in incorporated reference US Patent # 6,100,804), wherein the second resonance circuit (40, Fig. 8A) comprises a second antenna coil (16, Fig. 8A) and a second capacitor (32, Fig. 5)

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(Column 4 lines 21-25), wherein a first packing material (49, Fig. 8B) for packing a product is provided with the first resonance circuit (14, Fig. 8B), wherein a second packing material (48b, Fig. 8B) for packing the first packing material (49, Fig. 8B) is provided with the second resonance circuit (40, Fig. 8A), wherein the product (49, Fig. 8B) is provided with the semiconductor device (RFID tag) (14, Fig. 8B), wherein the second resonance circuit (40, Fig. 8A) can communicate with the reader/writer (2, Fig. 1) and the first resonance circuit (14, Fig. 8A) (Column 3 lines 40-46), and wherein the first resonance circuit (14, Fig. 8A) can communicate with the reader/writer (2, Fig. 1) and the semiconductor device (RFID tag) (14, Fig. 8A) (Column 3 lines 40-46).

Nicholson et al. does not teach wherein a communication range between the reader/writer and the resonance circuit is longer than a communication range between the resonance circuit and the semiconductor device.

Although Nicholson et al. does not specifically disclose a communication range between the reader/writer and the resonance circuit is longer than a communication range between the resonance circuit and the semiconductor device. He does disclose the invention for extending the read/write range between an RFID reader/writer and a designated tag (Column 3 lines 21-34). Since the communication range between resonance circuit (passive repeater apparatus) (40, Fig. 8A) and semiconductor device (RFID tag) (14, Fig. 8A) is fixed. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to determine that the extended read/write range as shown in Nicholson et al. is longer than a fixed range between resonance circuit and semiconductor device.

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6. Claims 9-12, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bridgelall et al. (Pub # US 2004/0217867 A1), and further in view of Van De Walle et al. (Pub # US 2004/0245519 A1) and Nicholson et al. (Pub # US 2002/0021208 A1).

Consider claim 9, Bridgelall et al. teaches a method comprising: sending at least one of a first signal (38, Fig. 4) comprising first information and a first electric power from a reader/writer (interrogator) to a resonance circuit (relay device) (35, Fig. 4), sending at least one of a second signal (36, Fig. 4) comprising the first information and a second electric power from the resonance circuit (relay device) (23, Fig. 4) to a semiconductor device (RFID tags) (22, Fig. 1) in response to a receipt of said at least one of the first signal (38, Fig. 4) and the first electric power; sending a third signal (34, Fig. 4) comprising second information from said semiconductor device (RFID tags) (22, Fig. 1) to the resonance circuit (relay device) (23, Fig. 4) in response to a receipt of said at least one of the second signal (34, Fig. 4) and the second electric power by the semiconductor device (relay device) (23, Fig. 4), sending a fourth signal (36, Fig. 4) comprising said second information from the resonance circuit (relay device) (35, Fig. 4) to the reader/writer (interrogator) [0027].

Bridgelall et al. does not teach wherein said semiconductor device comprises a thin film integrated circuit portion comprising an antenna coil and a capacitor, and wherein the semiconductor device is attached to a product, the product is contained in a packing material, the resonance circuit is attached to the packing material and the reader/writer is disposed outside of the packing material.

In the same field of endeavor, Van De Walle et al. teaches the semiconductor device (transponder) (100, Fig. 6) comprises a thin film integrated circuit comprising a thin film [0039

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lines 12-15], an antenna (41, Fig. 6) [0039 lines 28-29], and a capacitor (13, Fig. 6) for the benefit of providing micro contact printing to reduce the manufacturing cost of RFID tag.

Furthermore, Nicholson et al. teaches wherein the semiconductor device (RFID tag) (14, Fig. 8B) is attached to a product (49, Fig. 8B), the product (49, Fig. 8B) is contained in a packing material (48b, Fig. 8B), the resonance circuit (17, Fig. 8B) is attached to the packing material (48b, Fig. 8B) and the reader/writer is disposed outside of the packing material (48b, Fig. 8B) for the benefit of extending the read/write range of the designated tag.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the semiconductor device comprises a thin film integrated circuit comprising a thin film, an antenna, and a capacitor as shown in Van De Walle et al., and the semiconductor device is attached to a product, the product is contained in a packing material, the resonance circuit is attached to the packing material and the reader/writer is disposed outside of the packing material as shown in Nicholson et al., in Bridgelall et al. method for the benefit of providing micro contact printing to reduce the manufacturing cost of RFID tag and extending the read/write range of the designated tag.

Consider claim 10, Bridgelall et al. teaches a method comprising: sending at least one of a first signal (38, Fig. 4) comprising first information and a first electric power from a reader/writer (interrogator) to a resonance circuit (relay device) (35, Fig. 4), sending at least one of a second signal (36, Fig. 4) comprising the first information and a second electric power from the resonance circuit (relay device) (23, Fig. 4) to a semiconductor device (RFID tags) (22, Fig. 1) in response to a receipt of said at least one of the first signal (38, Fig. 4) and the first electric power; sending a third signal (34, Fig. 4) comprising second information from said



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semiconductor device (RFID tags) (22, Fig. 1) to the resonance circuit (relay device) (23, Fig. 4) in response to a receipt of said at least one of the second signal (34, Fig. 4) and the second electric power by the semiconductor device (relay device) (23, Fig. 4), sending a fourth signal (36, Fig. 4) comprising said second information from the resonance circuit (relay device) (35, Fig. 4) to the reader/writer (interrogator) [0027], sending a fifth signal comprising said second information from the second resonance circuit to the first resonance circuit, sending a sixth signal comprising said second information from the first resonance circuit to the reader/writer [0026 lines 17-25], except wherein said semiconductor device comprises a thin film integrated circuit comprising a thin film transistor and an antenna, and wherein the semiconductor device is attached to a product, the product is contained in a second packing material, the second resonance circuit is attached to the second packing material, the second packing material is contained in a first packing material, the first resonance circuit is attached to the first packing material, and the reader/writer is disposed outside of the first packing material.

In the same field of endeavor, Van De Walle et al. teaches the semiconductor device (transponder) (100, Fig. 6) comprises a thin film integrated circuit comprising a thin film transistor (10, Fig. 6) [0039 lines 12-15], and an antenna (41, Fig. 6) [0039 lines 28-29] for the benefit of providing microcontact printing to reduce the manufacturing cost of RFID tag.

Furthermore, Nicholson et al. teaches the semiconductor device (RFID tag) (14, Fig. 8B) is attached to a product (49, Fig. 8B), the product (49, Fig. 8B) is contained in a first packing material (48b, Fig. 8B), the first resonance circuit (17, Fig. 8B) is attached to the first packing material (48b, Fig. 8B), and the reader/writer is disposed outside of the first packing material (48b, Fig. 8B) for the benefit of extending the read/write range to designated tag. Although

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Nicholson et al. does not specifically disclose the second resonance circuit is attached to the second package packing material. He does disclose the first packaging material (48b, Fig. 8B) and first resonance circuit (17, Fig. 8B). Applicant has not disclosed that the second packaging material and second resonance circuit provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with any redundant intermediate layers of packing materials and resonance circuits attached to it. Therefore, it would have been obvious to one of ordinary skill in this art to add additional redundant layers to obtain the invention as specified in the claim 10.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the semiconductor device comprises a thin film integrated circuit comprising a thin film transistor, and an antenna as shown in Van De Walle et al. and the semiconductor device is attached to a product, the product is contained in a second packing material, the second resonance circuit is attached to the second packing material, the second packing material is contained in a first packing material, the first resonance circuit is attached to the first packing material, and the reader/writer is disposed outside of the first packing material as shown in Nicholson et al., in Bridgelall et al. method for the benefit of providing microcontact printing to reduce the manufacturing cost of RFID tag and extending the read/write range to designated tag.

Consider claim 11, Bridgelall et al. clearly shown and disclose the method, wherein the semiconductor device is an ID tag [0003 lines 5-8].

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Consider claim 12, Bridgelall et al. clearly shown and disclose the method, wherein the first packaging material (40, Fig. 5) is a container [0028 lines 6-9].

Consider claim 18, Bridgelall et al. teaches the similar method.

Bridgelall et al. does not teach wherein the resonance circuit further comprises any one of a battery, a CPU and a memory.

In the same field of endeavor, Nicholson et al. teaches the method, wherein the resonance circuit further comprise any one of a battery, a CPU and a memory (Column 2 lines 39-42 shown in incorporated reference US Patent # 6,100,804) for the benefit of forming self-powered active tag.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include wherein the resonance circuit further comprises any one of a battery, a CPU and a memory as shown in Nicholson et al., in Bridgelall et al. device for the benefit of forming self-powered active tag.

7. Claims 13-17, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nicholson et al. (US Patent # 6,563,425 B2) in view of Van De Walle et al. (Pub # US 2004/0245519 A1).

Consider claim 13, Nicholson et al. teaches a product management system comprising: a semiconductor device (14, Fig. 8A); a resonance circuit (passive repeater apparatus) (40, Fig. 8A); and a reader/writer (2, Fig. 1) (Column 3 lines 40-46) for at least one of reading information stored in a semiconductor device (tag) (14, Fig. 8A) and writing information in the semiconductor device (14, Fig. 8A) (Column 3 lines 35-46), wherein the resonance circuit comprises an antenna coil (16, Fig. 8A) and a capacitor (embedded within antenna circuit)

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(Column 4 lines 21-24), wherein a packing material (48a, Fig. 8A) for packing a product (49, Fig. 8B) is provided with the resonance circuit (passive repeater apparatus) (40, Fig. 8A), wherein the product (49, Fig. 8B) is provided with the semiconductor device (RFID tag) (14, Fig. 8B), wherein the resonance circuit (passive repeater apparatus) (40, Fig. 8A) can communicate with the reader/writer (inherent within RFID system) and the semiconductor device (RFID tag) (14, Fig. 8A).

Nicholson et al. does not teach wherein the semiconductor device comprises a thin film integrated circuit comprising a thin film transistor, and an antenna.

In the same field of endeavor, Van De Walle et al. teaches the semiconductor device (transponder) (100, Fig. 6) comprises a thin film integrated circuit comprising a thin film transistor (10, Fig. 6) [0039 lines 12-15], and an antenna (41, Fig. 6) [0039 lines 28-29] for the benefit of providing micro contact printing to reduce the manufacturing cost of RFID tag.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the semiconductor device comprises a thin film integrated circuit comprising a thin film transistor, and an antenna as shown in Van De Walle et al., in Nicholson et al. device for the benefit of providing micro contact printing to reduce the manufacturing cost of RFID tag.

Consider claim 14, Nicholson et al. clearly show and discloses the product management system, wherein a communication method between the reader/writer and the resonance circuit is identical to a communication method between the resonance circuit and the semiconductor device (Column 2 lines 7-19).

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Consider claim 15, Nicholson et al. clearly show and discloses the product management system, wherein the communication method is an electromagnetic (magnetic flux) induction method (Column 1 lines 65-67 and Column 2 lines 1-6).

Consider claim 16, Nicholson et al. clearly show and discloses the product management system, wherein a communication method (active method) between the reader/writer and the resonance circuit (15, Fig. 8B) is different from a communication method (passive) between the resonance circuit (15, Fig. 8B) and the semiconductor device (14, Fig. 8B) (Column 1 lines 35-36).

Consider claim 17, Nicholson et al. clearly show and disclose the product management system, wherein the communication method between the reader/writer (2, Fig. 1) (Column 3 lines 40-46) and the resonance circuit (40, Fig. 8A) is any one of an electromagnetic (magnetic flux) induction method and a microwave method (Column 1 lines 65-67 and Column 2 lines 1-6).

Consider claim 19, Nicholson et al. clearly show and disclose the method, wherein the resonance circuit further comprise any one of a battery, a CPU and a memory (Column 2 lines 39-42 shown in incorporated reference US Patent # 6,100,804).

8. Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nicholson et al. (Pub # US 2002/0021208 A1) as applied to claims 1 and 6 above, and further in view of Twitchell, JR. (Pub # US 2004/0082296 A1).

Consider claims 20 and 21, Nicholson et al. teaches similar invention.

Nicholson et al. does not teach the product management system, wherein the second packing material is a transport vehicle.

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In the same field of endeavor, Twitchell, JR. teaches the product management system, wherein the second packing material is a transport vehicle (184, Fig. 1) for the benefit of providing mobility the system.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the second packing material is a transport vehicle as shown in Twitchell, JR., in Nicholson et al. device for the benefit of providing mobility the system.

9. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bridgelall et al. (Pub # US 2004/0217867 A1) in view of Van De Walle et al. (Pub # US 2004/0245519 A1) and Nicholson et al. (Pub # US 2002/0021208 A1) as applied to claim 10 above, and further in view of Twitchell, JR. (Pub # US 2004/0082296 A1).

Consider claim 22, the combined references teaches similar invention.

The combined references does not teach the product management system, wherein the second packing material is a transport vehicle.

In the same field of endeavor, Twitchell, JR. teaches the product management system, wherein the second packing material is a transport vehicle (184, Fig. 1) for the benefit of providing mobility the system.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the second packing material is a transport vehicle as shown in Twitchell, JR., in the combined method for the benefit of providing mobility the system.

### ***Response to Arguments***

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10. Applicant's arguments, see Remarks, filed 5/4/2010, with respect to Claim Rejections under 35 U.S.C. §112 have been fully considered and are persuasive. The Rejections of Claims 1-9 has been withdrawn.

11. Applicant's arguments filed 5/4/2010 have been fully considered but they are not persuasive.

Regarding claim 1-5, 7 and 8, Applicant argues that the Office Action has not established an anticipation rejection. The Examiner respectfully disagrees. As disclosed in the prior Office Action, Nicholson et al. clearly shows and discloses the claimed subject elements, and the Office Action has clearly mapped each element as set forth in the claim rejection. Furthermore, Applicant specifically argue that the Nicholson does not disclose, either explicitly or inherently, "a reader/writer 2" in Figure 1. The Examiner respectfully disagrees. In the Office Action, the Examiner cited "a reader/writer 2" in Figure 1 along with the cited "Column 3 lines 40-46" for illustration purpose, it is would be proper to incorporate in the Figure 1, and where the Column number clearly discloses the claimed element of "a reader/writer", which should not be ignored. Moreover, Applicant argues that Nicholson's tag 14 has been claimed both the semiconductor device and the first resonance circuit. As described in Column 3 lines 35-45, Nicholson discloses the tag 14 as an RFID tag, wherein the RFID tag is inherently and well-known in the art that such device contains antenna within the circuit and contains semiconductor chip. Therefore, the RFID inherently contains resonance circuit and it is a semiconductor device by nature of the element.

Regarding claim 6, Applicant argues that that the Office Action has not made a prima facie case of obvious. The Examiner respectfully disagrees. Nicholson clearly shows the first resonance circuit as a RFID tag (14, Fig. 8A), wherein the RFID tag inherently contains a coil

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and a capacitor functions as antenna, and the second resonance circuit (40, Fig. 8A) as repeater, which is also inherently contains antenna coil and a capacitor in order to transmit and receive signal. Since the claimed communication range does not yield any unreadable results nor add any additional function to the system, and does not yield any patentable weight to the system.

Therefore, the claimed subject matter would have been obvious to a person having ordinary skill in the art at the time the invention was made.

Regarding claim 6, and 9-13, Applicant argues that the container 49 does not pack the product 49. The Examiner respectfully disagrees. As described in Nicholson, the product container (49, Fig. 8B) could be interpreted both product and product container, since the container its self is a product. Therefore, the container is interpreted as a product container and a product.

Regarding claims 9-13, and 18. In response to applicant's argument that there is no teaching, suggestion, or motivation to combine the references, the examiner recognizes that obviousness may be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988), *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992), and *KSR International Co. v. Teleflex, Inc.*, 550 U.S. 398, 82 USPQ2d 1385 (2007). In this case, Nicholson et al. discloses a RFID passive repeater system and apparatus comprising a RFID reader having a magnetic flux field, at least one RFID tag and at least one passive repeater member having at least one substantially continuous passive loop, the passive repeater member being adapted and positionable with



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respect to the RFID reader and the RFID tag to extend the redirect and/or extend the range of the magnetic flux field which the claimed invention can be seen as an improvement in the RFID passive repeater system. Bridgelall et al. contains known technique that arranges the RFID antenna on the package would have been recognized by one of ordinary skill in the art as applicable to the Nicholson's RFID passive repeater system and the results would have been predictable and resulted in the product management system utilize a semiconductor device on the package which results in an improved process. Therefore, the claimed subject matter would have been obvious to a person having ordinary skill in the art at the time the invention was made.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACK WANG whose telephone number is (571)272-1938. The examiner can normally be reached on M-F 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Bugg can be reached on 571-272-2998. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JACK WANG/  
Examiner, Art Unit 2612

/George A Bugg/

Primary Examiner, Art Unit 2612